

DT05 Rec'd PCT/PTO 2-8 SEP 2004

WO 03/083096

PCT/CA03/00409

SEQUENCE LISTING

<110> Delaney, Allen

<120> Cancer Associated Protein Kinases and their Uses

<130> KINE-038prv

<140> not assigned

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<170> FastSEQ for Windows Version 4.0

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<212> DNA

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<222> (0)...(0)

<223> PCK3 kinase DNA

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<223> PCK3 kinase polypeptide

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Ser Leu Gln Gln Lys Leu Glu Thr Glu Arg Glu Leu Lys Gln Arg Leu
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Leu Glu Glu Gln Ala Lys Leu Gln Gln Gln Met Asp Leu Gln Lys Asn
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17

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His	Asp	Glu	Lys	Val	Asp	Leu	Trp	Ser	Leu	Gly	Val	Leu	Cys	Tyr	Glu
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Trp Tyr Ile Gln Ser Leu Gln Glu Leu Leu Asp Phe Lys Asp Lys Ser
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Thr Gly Leu Pro Arg Gln Trp Gln Ser Leu Ile Glu Glu Ser Ala Arg
 35            40            45
Arg Pro Lys Pro Leu Val Asp Pro Ala Cys Ile Thr Ser Ile Gln Pro
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 100 105 110
 Gln Glu Asn Gly Met Pro Glu Glu Pro Ala Thr Thr Ala Arg Gly Gly
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 His Asp Val Ala Pro Asn Gly Pro Ser Ala Gly Gly Leu Ala Ile Pro
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 Pro Ser Pro Gly Val Leu Gly Pro His Ala Ser Glu Pro Gln Leu Ala
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 Ile Ala Leu Tyr Asp Tyr Gln Thr Asn Asp Pro Gln Glu Leu Ala Leu
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 Arg Arg Asn Glu Glu Tyr Cys Leu Leu Asp Ser Ser Glu Ile His Trp
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<212> DNA

<213> Homo sapiens

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<211> 697

<212> PRT

<213> Homo sapiens

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<400> 20

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Tyr Lys Glu Arg Leu Phe Val Leu Thr Lys Thr Asn Leu Ser Tyr Tyr
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Glu Tyr Asp Lys Met Lys Arg Gly Ser Arg Lys Gly Ser Ile Glu Ile
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Lys Lys Ile Arg Cys Val Glu Lys Val Asn Leu Glu Glu Gln Thr Pro
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Val Glu Arg Gln Tyr Pro Phe Gln Ile Val Tyr Lys Asp Gly Leu Leu
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Tyr Val Tyr Ala Ser Asn Glu Glu Ser Arg Ser Gln Trp Leu Lys Ala
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Leu Gln Lys Glu Ile Arg Gly Asn Pro His Leu Leu Val Lys Tyr His
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 Tyr Gly Ser Gln Pro Pro Ser Ser Ser Thr Ser Leu Ala Gln Tyr Asp
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 Tyr Ile Pro Arg Glu Asp Phe Pro Asp Trp Trp Gln Val Arg Lys Leu
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 Gly Thr Lys Phe Pro Val Lys Trp Ser Ala Pro Glu Val Phe His Tyr
 595 600 605
 Phe Lys Tyr Ser Ser Lys Ser Asp Val Trp Ala Phe Gly Ile Leu Met
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Trp Glu Val Phe Ser Leu Gly Lys Gln Pro Tyr Asp Leu Tyr Asp Asn
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 Ser Gln Val Val Leu Lys Val Ser Gln Gly His Arg Leu Tyr Arg Pro
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 His Leu Ala Ser Asp Thr Ile Tyr Gln Ile Met Tyr Ser Cys Trp His
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<212> DNA

<213> Homo sapiens

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Pro Gly Pro Ala Pro Phe Leu Ala Pro Val Ala Ala Pro Val Gly Gly
      35            40            45
Ile Ser Phe His Leu Gln Ile Gly Leu Ser Arg Glu Pro Val Leu Leu
      50            55            60
Leu Gln Asp Ser Ser Gly Asp Tyr Ser Leu Ala His Val Arg Glu Met
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Ala Cys Ser Ile Val Asp Gln Lys Phe Pro Glu Cys Gly Phe Tyr Gly
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Met Tyr Asp Lys Ile Leu Leu Phe Arg His Asp Pro Thr Ser Glu Asn
      100           105           110
Ile Leu Gln Leu Val Lys Ala Ala Ser Asp Ile Gln Glu Gly Asp Leu
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Arg Pro His Ala Leu Phe Val His Ser Tyr Arg Ala Pro Ala Phe Cys
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Asp His Cys Gly Glu Met Leu Trp Gly Leu Val Arg Gln Gly Leu Lys
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 Ile His Leu Asp Lys Ile Leu Met Ser Lys Val Lys Val Pro His Thr
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 Arg Phe Asn Cys His Lys Arg Cys Ala Pro Lys Val Pro Asn Asn Cys
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 Glu Met Ala Met Ala Glu Cys Gln Asn Asp Ser Gly Glu Met Gln Asp
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Val Val Met Glu Lys Leu His Gly Asp Met Leu Glu Met Ile Leu Ser
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 725 730 735
 Lys Ser Phe Arg Arg Ser Val Val Gly Thr Pro Ala Tyr Leu Ala Pro
 740 745 750
 Glu Val Leu Arg Asn Lys Gly Tyr Asn Arg Ser Leu Asp Met Trp Ser
 755 760 765
 Val Gly Val Ile Ile Tyr Val Ser Leu Ser Gly Thr Phe Pro Phe Asn
 770 775 780
 Glu Asp Glu Asp Ile His Asp Gln Ile Gln Asn Ala Ala Phe Met Tyr
 785 790 795 800
 Pro Pro Asn Pro Trp Lys Glu Ile Ser His Glu Ala Ile Asp Leu Ile
 805 810 815
 Asn Asn Leu Leu Gln Val Lys Met Arg Lys Arg Tyr Ser Val Asp Lys
 820 825 830
 Thr Leu Ser His Pro Trp Leu Gln Asp Tyr Gln Thr Trp Leu Asp Leu
 835 840 845
 Arg Glu Leu Glu Cys Lys Ile Gly Glu Arg Tyr Ile Thr His Glu Ser
 850 855 860
 Asp Asp Leu Arg Trp Glu Lys Tyr Ala Gly Glu Gln Arg Leu Gln Tyr
 865 870 875 880
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<210> 23

<211> 1597

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<222> (0)...(0)

<223> NEK6 kinase polynucleotide

<400> 23

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 tgccacaccc tggggcctgt gcctcctcct gaccacaga ggcacccaa cacgtgtct 240
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<211> 306

<212> PRT

<213> Homo sapiens

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<221> UNSURE

<222> .(0)...(0)

<223> NEK6 kinase polypeptide

<400> 24

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Cys Ser Leu Ala Asp Phe Gln Ile Glu Lys Lys Ile Gly Arg Gly Gln
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Phe Ser Glu Val Tyr Lys Ala Thr Cys Leu Leu Asp Arg Lys Thr Val
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Ala Leu Lys Lys Val Gln Ile Phe Glu Met Met Asp Ala Lys Ala Arg
65          70          75          80
Gln Asp Cys Val Lys Glu Ile Gly Leu Leu Lys Gln Leu Asn His Pro
          85          90          95
Asn Ile Ile Lys Tyr Leu Asp Ser Phe Ile Glu Asp Asn Glu Leu Asn
          100          105          110
Ile Val Leu Glu Leu Ala Asp Ala Gly Asp Leu Ser Gln Met Ile Lys
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Tyr Phe Lys Lys Gln Lys Arg Leu Ile Pro Glu Arg Thr Val Trp Lys
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Tyr Phe Val Gln Leu Cys Ser Ala Val Glu His Met His Ser Arg Arg
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Val Met His Arg Asp Ile Lys Pro Ala Asn Val Phe Ile Thr Ala Thr
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Gly Val Val Lys Leu Gly Asp Leu Gly Leu Gly Arg Phe Phe Ser Ser
          180          185          190
Glu Thr Thr Ala Ala His Ser Leu Val Gly Thr Pro Tyr Tyr Met Ser
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Pro Glu Arg Ile His Glu Asn Gly Tyr Asn Phe Lys Ser Asp Ile Trp
          210          215          220
Ser Leu Gly Cys Leu Leu Tyr Glu Met Ala Ala Leu Gln Ser Pro Phe
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Tyr Gly Asp Lys Met Asn Leu Phe Ser Leu Cys Gln Lys Ile Glu Gln
          245          250          255
Cys Asp Tyr Pro Pro Leu Pro Gly Glu His Tyr Ser Glu Lys Leu Arg
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Glu Leu Val Ser Met Cys Ile Cys Pro Asp Pro His Gln Arg Pro Asp
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 Ser Thr
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 <212> DNA
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 <223> PDPK1 kinase polynucleotide

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 <213> Homo sapiens

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 <222> (0)...(0)
 <223> PDPK1 kinase polypeptide

<400> 26

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Thr Glu Ser Ser Thr Pro Pro Gly Ile Pro Gly Gly Ser Arg Gln Gly
          35          40          45
Pro Ala Met Asp Gly Thr Ala Ala Glu Pro Arg Pro Gly Ala Gly Ser
          50          55          60
Leu Gln His Ala Gln Pro Pro Gln Pro Arg Lys Lys Arg Pro Glu
65          70          75          80
Asp Phe Lys Phe Gly Lys Ile Leu Gly Glu Gly Ser Phe Ser Thr Val
          85          90          95
Val Leu Ala Arg Glu Leu Ala Thr Ser Arg Glu Tyr Ala Ile Lys Ile
          100          105          110
Leu Glu Lys Arg His Ile Ile Lys Glu Asn Lys Val Pro Tyr Val Thr
          115          120          125
Arg Glu Arg Asp Val Met Ser Arg Leu Asp His Pro Phe Phe Val Lys
          130          135          140
Leu Tyr Phe Thr Phe Gln Asp Asp Glu Lys Leu Tyr Phe Gly Leu Ser
          145          150          155          160
Tyr Ala Lys Asn Gly Glu Leu Leu Lys Tyr Ile Arg Lys Ile Gly Ser
          165          170          175
Phe Asp Glu Thr Cys Thr Arg Phe Tyr Thr Ala Glu Ile Val Ser Ala
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Leu Glu Tyr Leu His Gly Lys Gly Ile Ile His Arg Asp Leu Lys Pro
          195          200          205
Glu Asn Ile Leu Leu Asn Glu Asp Met His Ile Gln Ile Thr Asp Phe
          210          215          220
Gly Thr Ala Lys Val Leu Ser Pro Glu Ser Lys Gln Ala Arg Ala Asn
          225          230          235          240
Ser Phe Val Gly Thr Ala Gln Tyr Val Ser Pro Glu Leu Leu Thr Glu
          245          250          255
Lys Ser Ala Cys Lys Ser Ser Asp Leu Trp Ala Leu Gly Cys Ile Ile
          260          265          270
Tyr Gln Leu Val Ala Gly Leu Pro Phe Arg Ala Gly Asn Glu Tyr
          275          280          285
Leu Ile Phe Gln Lys Ile Ile Lys Leu Glu Tyr Asp Phe Pro Glu Lys
          290          295          300
Phe Phe Pro Lys Ala Arg Asp Leu Val Glu Lys Leu Leu Val Leu Asp
          305          310          315          320
Ala Thr Lys Arg Leu Gly Cys Glu Glu Met Glu Gly Tyr Gly Pro Leu
          325          330          335
Lys Ala His Pro Phe Phe Glu Ser Val Thr Trp Glu Asn Leu His Gln
          340          345          350
Gln Thr Pro Pro Lys Leu Thr Ala Tyr Leu Pro Ala Met Ser Glu Asp
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Asp Glu Asp Cys Tyr Gly Asn Tyr Asp Asn Leu Leu Ser Gln Phe Gly
          370          375          380
Cys Met Gln Val Ser Ser Ser Ser Ser Ser His Ser Leu Ser Ala Ser
          385          390          395          400
Asp Thr Gly Leu Pro Gln Arg Ser Gly Ser Asn Ile Glu Gln Tyr Ile
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His Asp Leu Asp Ser Asn Ser Phe Glu Leu Asp Leu Gln Phe Ser Glu
          420          425          430
Asp Glu Lys Arg Leu Leu Leu Glu Lys Gln Ala Gly Gly Asn Pro Trp
          435          440          445
His Gln Phe Val Glu Asn Asn Leu Ile Leu Lys Met Gly Pro Val Asp
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Lys Arg Lys Gly Leu Phe Ala Arg Arg Arg Gln Leu Leu Leu Thr Glu
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WO 03/083096

PCT/CA03/00409

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			500					505					510		
Thr	Phe	Phe	Val	His	Thr	Pro	Asn	Arg	Thr	Tyr	Tyr	Leu	Met	Asp	Pro
		515					520					525			
Ser	Gly	Asn	Ala	His	Lys	Trp	Cys	Arg	Lys	Ile	Gln	Glu	Val	Trp	Arg
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Gln	Arg	Tyr	Gln	Ser	His	Pro	Asp	Ala	Ala	Val	Gln				
545					550					555					

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